Hormone and Metabolic Research

Editors-in-Chief

E. F. Pfeiffer, Ulm
G. M. Reaven, Palo Alto

Assistant Editors

F. Bischof, Ulm
C. Meyerhoff, Ulm
A. R. Hoffman, Palo Alto

Co-Editors

E. E. Baulieu, Paris
G. Bettendorf, Hamburg
R. N. Clayton, North Staffordshire
S. S. Fajans, Ann Arbor
V. G. Foglia, Buenos Aires†
E. A. Friedman, New York
W.-D. Hetzel, Ulm
J. J. Hoet, Brussels
Ch. Lauritzen, Ulm
R. Levine, Duarte
R. J. Mahler, New York
W. J. Malaisse, Brussels
T. J. Martin, Melbourne
L. Martini, Milan
Z. Naor, Tel Aviv
S. A. Raptis, Athens
W. Reutter, Berlin
R. Yalow, New York
R. Ziegler, Heidelberg

Volume 25/1993
328 figures
in 404 single figures
and 187 tables

1993
Georg Thieme Verlag
Stuttgart · New York

Some of the product names, patents and registered design referred to are in fact registered trademarks or proprietary names even though specific reference to this fact is not always made in the text. Therefore, the appearance of a name without designations as proprietary is not to be construed as a representation by the publisher that it is in the public domain.
All rights, including the rights of publication, distribution and sales, as well as the right to translation, are reserved. No part of this work covered by the copyrights hereon may be reproduced or copied in any form or any means – graphic, electronic or mechanical including photocopying, recording, taping, or information and retrieval systems – without written permission of the publisher.
© Georg Thieme Verlag, Rüdigerstraße 14, D-70469 Stuttgart, 1993 – Printed in Germany.

Contents

No. 1 (January	1993) Pages 1– 70	No. 7 (July	1993) Pages 335–402
No. 2 (February	1993) Pages 71–134	No. 8 (August	1993) Pages 403–456
No. 3 (March	1993) Pages 135–190	No. 9 (September	1993) Pages 457–506
No. 4 (April	1993) Pages 191–242	No. 10 (October	1993) Pages 507–552
No. 5 (May	1993) Pages 243–284	No. 11 (November	1993) Pages 553–602
No. 6 (June	1993) Pages 285–334	No. 12 (December	1993) Pages 603–660

4 **Abou-Seif, M. A. M., V. Maier, J. Fuchs, M. Mezger, E. F. Pfeiffer, M. Bounias:** Fluctuations of Carbohydrates in Haemolymph of Honeybee (Apis Mellifica) After Fasting, Feeding and Stress

521 **Apweiler, R., P. Freund:** Development of Glucose Intolerance in Obese (fa/fa) Zucker Rats

539 **Arreola, F., R. Paniagua, A. Pérez, Silvia Díaz-Bensussen, Elisa Junco, S. Villalpando, E. Exaire:** Effect of Zinc Treatment on Serum Thyroid Hormones in Uremic Patients Under Peritoneal Dialysis

344 **Augstein, Petra, K.-D. Kohnert, Brigitte Ziegler, Birgitt Fürll, P. Heinke, M. Ziegler:** Induction of Islet Cell Surface and Insulin Antibodies in Balb/c Mice by Application of Porcine Insulin and Freund's Adjuvant is not Associated with Insulitis.

271 **Averna, M. R., C. M. Barbagallo, G. Di Paola, F. La Placa, V. Scafidi, U. Dimita, A. Notarbartolo:** Transient Neonatal Hypercholesterolemia: Lack of Relationships with Dehydroepiandrosterone Sulfate

411 **Bähr, V., C. Sander-Bähr, J. Hensen, W. Oelkers:** Influence of Sodium and Potassium Diets on Adrenal Vasopressin Content and Direct Effects of Vasopressin on Aldosterone Synthesis in Adrenocortical Cells.

513 **Balbis, A., C. P. Setton-Avruj, N. B. Sterin-Speziale, D. Turyn:** Specific and Functional Insulin Receptors in Rat Renal Papilla

382 **Barzilai, N., E. Karnieli, D. Barzilai, P. Cohen:** Correlation Between Glucose Disposal and Amino Acids Levels in Hyperthyroidism

96 **Baynes, C., R. S. Elkeles, A. D. Henderson, W. Richmond, D. G. Johnston:** The Effects of Glibenclamide on Glucose Homeostasis and Lipoprotein Metabolism in Poorly Controlled Type 2 Diabetes

545 **Beatti, J.:** Secretion of Insulin-Like Growth Factor Binding Proteins (IGFBPs) by a Rat Pituitary Tumour Cell Line

449 **Beshyah, S. A., V. Markussis, T. Harbourne, A. N. Nicolaides, D. G. Johnston:** Haemostatic Mechanisms are Normal Despite Increased Vascular Mortality in Hypopituitary Adults

617 **Beyer, J., G. Kahaly:** Preface

40 **Blind, E., F. Raue, T. Meinel, Chr. Wüster, R. Ziegler:** Levels of Parathyroid Hormone-Related Protein (PTHrP) in Hypercalcemia of Malignancy Are not Lowered by Treatment With the Bisphosphonate BM 21.0955

37 **Botana, M. A., L. Castillo, C. Pesquera, J. Freijanes, J. A. Amado, J. González-Macías:** Lack of Effect of Octreotide on Parathyroid Hormone Levels and Urinary Excretion of Epidermal Growth Factor

312 **Bouix, O., J. F. Brun, A. Orsetti:** The Magnitude, the Kinetics and the Metabolic Efficiency of First-Phase Insulin Response to Intravenous Glucose are Related

275 **Brockmeier, Steffi J., M. Buchfelder, R. Fahlbusch:** TRH/GnRH Test in Acromegaly – Long-Term Follow-Up Experience with Successfully Treated Patients

219 **Broulik, P. D., J. Jaráb:** The Effect of Chronic Nicotine Administration on Bone Mineral Content in Mice

222 **Busbridge, N. J., M. J. Dascombe, N. J. Rothwell:** Chronic Effects of Inter-leukin-1β on Fever, Oxygen Consumption and Food Intake in the Rat

365 **Busetto, L., M. Digito, P. Dalla Montá, R. Carraro, G. Enzi:** Omental and Epigastric Adipose Tissue Lipolytic Activity in Human Obesity. Effect of Abdominal Fat Distribution and Relationship with Hyperinsulinemia

210 **Bushart, G. B., U. Vetter, W. Hartmann:** Glucose Transport During Cell Cycle in IM9 Lymphocytes

321 **Cavalot, F., G. Anfossi, I. Russo, E. Mularoni, P. Massucco, S. Burzacca, L. Mattiello, M. Trovati:** Insulin Stimulates the Polymorphonuclear Leukocyte Chemokinesis

391 **Cheng, Behling, Iris A. Horst, J. Kowal:** Nigericin Inhibits Adrenocorticotropic Hormone- and Dibutyryl-cAMP-Stimulated Steroidogenesis of Cultured Mouse Adrenocortical Tumor (Y1) Cells

301 **Chudaska, C., W. Schlegel:** The Influence of Growth Factors on the Prostaglandin Synthesis in Cultured Rabbit Luteal Cells

553 **Cole, D. R., M. Waterfall, L. Ashworth, A. J. Bone, J. D. Baird:** Metabolic Control in Streptozotocin Diabetic Rats Following Transplantation of Microencapsulated Pancreatic Islets

9 **Collier, G. R., K. Traianedes, S. L. Macaulay, K. O'Dea:** Effect of Fatty Acid Oxidation Inhibition on Glucose Metabolism in Diabetic Rats

268 **Costello, L. C., Renty B. Franklin:** Testosterone Regulates Pyruvate Dehydrogenase Activity of Prostate Mitochondria

353 **Csaba, G., A. Inczefi-Gonda:** Anabolic Steroid (Nandrolone) Treatment During Adolescence Decreases the Number of Glucocorticoid and Estrogen Receptors in Adult Female Rats

238 **Degryse, B., Sonia Hovsepian, G. Fayet:** Insulin Regulates Plasminogen Activator Production in Two Porcine Thyroid Cell Lines

640 **Desborough, Joan P., Ruth A. Griffin, Christine M. Moore, Jacky M. Burrin, G. M. Hall:** Growth Hormone Secretion in Response to Surgery: Effects of Cholinergic Blockade and Octreotide

13 **Deshaies, Y., A. Géloën, Anne Paulin, A. Marette, L. J. Bukowiecki:** Tissue-Specific Alterations in Lipoprotein Lipase Activity in the Rat After Chronic Infusion of Isoproterenol

425 **Dhyanne Warner, M., Yagya N. Sinha, Cecilia A. Peabody:** Growth Hormone and Prolactin Variants in Normal Subjects: Relative Proportions in Morning and Afternoon Samples

557 **Dimitriadis, G., C. Tegos, Liana Golfinopoulou, Chrisanthi Roboti, S. Raptis:** Furosemide-Induced Hyperglycaemia: The Implication of Glycolytic Kinases

573 **Ditschuneit, H. H., M. Flechtner-Mors, M. Dolderer, U. Fulda, H. Ditschuneit:** Endocrine and Metabolic Effects of Dexfenfluramine in Patients with Android Obesity

430 **Duntas, L., B. M. Grab, J. E. Dominguez-Monz, D. K. Nelson, U. Loos, F. S. Keck:** Evaluation of Thyrotropin Secretion Before and After TRH by Third Generation Chemiluminescent Assay: Assessment of Subclinical Hyperthyroidism

281 **Ercan, N., A. Usman, Z. Koray:** The Acute Effect of Somatostatin on Calcitonin Secretion in Healthy Subjects

256 **Fan, G., P. Carbajo, J. A. Rillema:** Possible Role of Tyrosine Kinases in the Prolactin Stimulation of Cell Division in Hb_2 Node lymphoma Cells

564 **Fan, G., J. A. Rillema:** Prolactin Stimulation of Protein Kinase C in Isolated Mouse Mammary Gland Nuclei

45 **Foss, M. C., M. J. A. Saad, A. C. Moreira:** Peripheral Muscle Glucose and Potassium Transport in Acromegaly

129 **Fried, Susan K., B. Appel, R. Zechner:** Interleukin 1α Decreases the Synthesis and Activity of Lipoprotein Lipase in Human Adipose Tissue

481 **Gagel, R. F.:** The Role of Genetic Screening in the Management of Hereditary Malignancy

240 **Gebhardt, D. O. E., A. J. Moolenaar, A. P. van Seter:** Mitotane (o,p′-DDD) Administration Raises the Serum Level of High Density Lipoprotein (HDL) in Normotriglyceridemia

525 **Geelen, M. J. H., Marion G. J. Schmitz:** The Role of Citrate in the Regulation of Hepatic Fatty Acid Synthesis by Insulin and Glucagon

250 **Gempel, K. E., K. D. Gerbitz, B. Olgemöller, E. D. Schleicher:** In-Vitro Carboxymethylation of Low Density Lipoprotein Alters its Metabolism Via the High-Affinity Receptor

484 **Gennari, C., D. Agnusdei, A. Camporeale:** Long Term Treatment with Calcitonin in Osteoporosis

305 **Ghigo, E., M. Procopio, M. Maccario, J. Bellone, E. Arvat, S. Campana, M. F. Boghen, F. Camanni:** Repetitive GHRH Administration Fails to Increase the Response to GHRH in Obese Subjects. Evidence for a Somatotrope Defect in Obesity?

489 **Giustina, A., Anna Rosa Bussi, M. Doga, M. Licini, M. Schettino, W. B. Wehrenberg:** Effects of Metoclopramide on the Growth Hormone Response to Galanin in Normal Man

397 **Glass, A. R., J. W. Kikendall, Leslie H. Sobin, Phyllis E. Bowen:** Serum 25-Hydroxyvitamin D Concentrations in Colonic Neoplasia

466 **Golden, K., J. A. Rillema:** Studies on the Mechanism by Which Prolactin Stimulates α-Aminoisobutyric Acid Uptake Into Cultured Mouse Mammary Tissues

477 **Goldring, S. R., A. H. Gorn, M. Yamin, S. M. Krane, J.-T. Wang:** Characterization of the Structural and Functional Properties of Cloned Calcitonin Receptor cDNAS

649 **Gorray, K. C., D. Sorresso, Susan A. Moak, J. Maimon, R. A. Greenwald, B. S. Schneider:** Comparison of Superoxide Dismutase Activity in isolated Rat and Guinea Pig Islets of Langerhans

389 **Grauer, A., P. Klein, T. Naveh-Many, J. Silver, R. Ziegler, F. Raue:** Diminished Calcitonin Secretion After Ovariectomy Without Apparent Reduction in Calcitonin Content in the Rat

486 **Grauer, A., H. H. Reinel, R. Ziegler, F. Raue:** Neutralizing Antibodies Against Calcitonin

199 **Grüßner, R., R. Nakhleh, Angelika Grüßner, G. Tomadze, P. Diem, D. Sutherland:** Streptozotocin-Induced Diabetes Mellitus

234 **Guillemant, J., S. Guillemant:** Modification by Phosphate of PTH-Dependent Renal Cyclic AMP Response

434 **Guzzaloni, G., G. Grugni, E. Tonelli, A. Ardizzi, G. Caló, D. Moro, G. Mazzilli, F. Morabito:** Melatonin Response to TRH in Prepubertal and Pubertal Healthy Subjects

77 **Hadjidakis, D., U. G. Lempert, H. W. Minne, R. Ziegler:** Bone Loss in Experimental Diabetes. Comparison with the Model of Inflammation Mediated Osteopenia

618 **Hansen, C., C. P. Heußel, E. A. Otto, C. Stover, J. Beyer, G. Kahaly:** Retrobulbar Adipocytes and Humoral Immunity in Graves' Ophthalmopathy

327 **Haouari, M., C. Alguemi, A. Sfaxi, A. Hedhili, K. Nagati, H. Zouaghi:** Effects of Oestradiol-17β in Hematological Parameters and Iron Absorption in Ovariectomized Rats

560 **Harada, M., T. Sawa, C. Okuda, T. Matsuda, Y. Tanaka:** Effects of Glucose Load on Brain Extracellular Lactate Concentration in Conscious Rats Using a Microdialysis Technique

278 **Harel, G., J. P. Kane, D. S. Shamoun, J. A. Magner, M. Szabo:** Effect of Thyroid Hormone Deficiency on Glycosylation of Rat TSH Secreted *In Vitro*

399 **Haug, Cornelia, K. P. Bergman, A. Hannekum, A. Grünert, E. F. Pfeiffer:** Influence of Coronary Artery Bypass Graft Operation on Plasma Atörial Natriuretic Peptide Concentrations

17 **Hausman, D. B., G. J. Hausman, R. J. Martin:** Influence of the Pituitary on Lipolysis and Lipogenesis in Fetal Pig Adipose Tissue

454 **Hernandez, A., P. Sepúlveda, B. Fernandez-Cuartero, R. E. De Salamanca:** Urinary Porphyrinogens in Normal Subjects and in Patients with Porphyria Cutanea Tarda and Acute Intermittent Porphyria

142 **Herremans, M., J. Buyse, E. Decuypere, T. Bartha, L. Bergman, C. G. Scanes, F. Leenstra, G. Beuving:** The Concept of Metabolic Clearance Rate in Endocrinology: A Case Study of Growth Hormone in Different Lines of Meat-Type Chickens

331 **Hopkins, Kathleen D., D. O. Brart, D. L. Russell-Jones, A. H. Chignell, P. H. Sönksen:** Insulin-Like Growth Factor Binding Protein-1 Levels in Diabetic Proliferative Retinopathy

214 **Hoz, L. de la, R. G. Vernon:** Endocrine Control of Sheep Adipose Tissue Fatty Acid Synthesis: Depot Specific Differences in Response to Lactation

550 **Ind, T., R. Iles, Lynne George, D. Smith, Tim Chard:** The Effect of Smoking on Serum Placental Alkaline Phosphatase Levels in Pregnancy

135 **Inoue, K., S. Hiramatsu, A. Hisatomi, F. Umeda, H. Nawata:** Effects of Amylin on the Release of Insulin and Glucagon from the Perfused Rat Pancreas

82 **Ishibashi, S., Natsuko Mori, Masako Shimada, T. Oka, H. Shimano, T. Gotoda, K. Komeda, S. Kawazu, T. Murase, Y. Yazaki, N. Yamada:** Apolipoprotein E Metabolism in Sciatic Nerves of Diabetic Rats. Implication for Diabetic Neuropathy

34 **Ishihara, F., M. Komatsu, T. Yamada, T. Aizawa, K. Ichikawa, N. Takasu, I. Komiya:** Role of Dehydroepiandrosterone and Dehydroepiandrosterone Sulfate for the Maintenance of Axillary Hair in Women

493 **Ishimura, E., T. Miki, H. Koyama, K. Harada, K. Nakatsuka, M. Inaba, Y. Nishizawa, H. Morii:** Effect of Aminohydroxypropylidene Diphosphonate on the Bone Metabolism of Patients with Parathyroid Adenoma

102 **Jain, S. K., R. McVie, J. Duett, J. J. Herbst:** The Effect of Glycemic Control on Plasma Prealbumin Levels in Type-1 Diabetic Children

131 **Janicki, P. K., R. Erskine, M. L. van der Watt:** Plasma Concentrations of Immunoreactive Beta-Endorphin and Substance P in Patients Undergoing Surgery under General vs Spinal Anaesthesia

651 **Jansson, L.:** Evidence of an Active Regulation of Pancreatic Islet Blood Flow in Rats: Studies in Induced Hypotension

228 **Jimena, P., J. A. Castilla, F. Peran, J. P. Ramirez, T. Gil, J. Mozas, L. Martinez, A. Herruzo:** Distribution of Free Amino Acids in Human Preovulatory Follicles

543 **Jirikowski, G. F., W. C. McGimsey, J. D. Caldwell, M. Sar:** Distribution of Oxytocinergic Glucocorticoid Target Neurons in the Rat Hypothalamus

298 **Juneja, R., P. Kadam, A. L. Kadam, S. S. Koide:** Inhibition of Progesterone Action by a Factor in Human Follicular Fluid

637 **Kahaly, G., C. E. Hansen, C. Stover, J. Beyer, E. Otto:** Glycosaminoglycan Antibodies in Endocrine Ophthalmopathy

421 **Kaji, H., T. Sugimoto, M. Fukase, K. Chihara:** Role of Dual Signal Transduction Systems in the Stimulation of Bone Resorption by Parathyroid Hormone-Related Peptide: The Direct Involvement of cAMP-Dependent Protein Kinase

500 **Kamwanja, L. A., P. J. Hansen:** Regulation of Proliferation of Bovine Oviductal Epithelial Cells by Estradiol: Interactions with Progesterone, Interferon-τ and Interferon-α

579 **Kappel, M., M. B. Hansen, M. Diamant, J. O. L. Jørgensen, A. Gyhrs, B. K. Pedersen:** Effects of an Acute Bolus Growth Hormone Infusion on the Human Immune System

125 **Katsumata, K., Y. Katsumata, T. Ozawa, K. Katsumata Jr.:** Potentiating Effects of Combined Usage of Three Sulfonylurea Drugs on the Occurrence of Alloxan Diabetes in Rats

598 **Komorowski, J., K. Zylińska, M. Pawlikowski, H. Stępien:** Stimulatory Effect of Thyrotropin (TSH) on Interleukon-2 (IL-2) Release from Human Peripheral Blood Lymphocytes. A Dose-Response Study *In Vitro*

360 **Kumar, D.:** Insulin Antibodies: Reduction in Various Anti-Insulin IgG Subclasses with Human Insulin Therapy

395 **Kurobe, M., Y. Takei, H. Ezawa, K. Hayashi:** Increased Level of Basic Fibroblast Growth Factor (bFGF) in Sera of Patients with Malignant Tumors

386 **Laufer, J., Dina Noff, Sara Orda, J. Sack:** Effect of Short-Term Hyperthyroxinemia on Vitamin D Metabolism in Congenital Hypothyroidism

24 **Lehnert, H., Helga Schmitz, K. Preuß, E. Küstner, U. Kruase, J. Beyer:** Effects of Nitrendipine on Blood Pressure, Renin-Angiotensin-System and Atrial Natriuretic Peptide in Hypertensive Type I Diabetic Patients

184 **Lerch, M. M., K.-H. Treutner, G. Winkeltau, S. Burk, V. Schumpelick, S. Matern:** Long-Term Impairment of Adrenal Function After Unilateral Adrenalectomy

655 **Lerique, B., O. Nobili, C. Delpero, J. Boyer, J. Le Petit-Thévenin:** Estrogen Modulates Triacylglycerol Acylation in the Red Blood Cell Membrane

462 **Machado, U. F., Y. Shimizu, M. Saito:** Decreased Glucose Transporter (Glut 4) Content in Insulin-Sensitive Tissues of Obese Aurothioglucose- and Monosodium Glutamate-Treated Mice

309 **Mancini, A., C. Fiumara, G. Conte, L. Sammartano, M. L. Fabrizzi, T. Iacona, D. Valle, L. De Marinis:** Pyridostigmine Effects on TSH Response to TRH in Adult and Children Obese Subjects

105 **Marcondes, J. A. M., A. C. Abujamra, S. L. Minanni, B. B. Mendonca, M. Nery, A. C. Lerario, M. A. Pereira, N. Abelin, B. L. Wajchenberg:** Long-Term Treatment of Central Precocious Puberty with a Long-Acting Analogue of Luteinizing Hormone Release Hormone (D-Trp^6-GnRH) in Monthly Injections. Its Possible Use in Normal Puberty

325 **Massa, G., J. Verhaeghe, M. Vanderschueren-Lodeweyckx, R. Bouillon:** Normalization of Decreased Plasma Concentrations of Growth Hormone-Binding Protein by Insulin Treatment in Spontaneously Diabetic BB Rats

138 **Mathias, P. C. F., E. M. Salvato, R. Curi, W. J. Malaisse, A. R. Carpinell:** Effect of Epinephrine on ^{86}Rb Efflux, ^{45}Ca Outflow and Insulin Release from Pancreatic Islets Perifused in the Presence of Propranolol

498 **Mavrikakis, M. E., J. Karli, L. G. Antoniades, P. P. Sfikakis, S. A. Kontoyannis, D. S. Moulopoulou, D. A. Koutras, S. A. Raptis:** Twenty-Four Hours Urinary Hydroxyproline Excretion in Long Term Experimental Diabetes Mellitus

528 **Mekonnen, Yalemtsehay, F. Raue, A. Zink, R. Ziegler:** Long-Term Exposure to SMS201-995 Inhibits Proliferation and Calcitonin Release in Neoplastic C-Cells

21 **Memeh, C. U.:** Differences Between Plasma Viscosity and Proteins of Types 1 and 2 Diabetic Africans in Early Phase of Diabetes

149 **Milin, J., K. Djakovic-Svajcer, M. Demajo:** Rat Pineal Gland Suppresses the Injection Stress-Reactive ACTH Outflow

187 **Mizutani, S., S. Nomura, R. Hirose, M. Kasugai, T. Ishizuka, Y. Tomoda:** Intra-Uterine Fetal Death Due to Pre-Eclampsia Which was Misdiagnosed to be Complicating with Hepatitis

246 **Moes, H., G. A. Schuiling, T. R. Koiter:** Arginine Stimulated Glucagon and Insulin Secretion by Islets of Langerhans of Pregnant and Lactating Rats

285 **Mokuda, O., Y. Sakamoto, Rika Kawagoe, N. Shimizu:** Effects of Arterial-Portal Glucose Difference on Gluconeogenesis from Lactate in the Isolated Bivascular-Perfused Rat Liver

596 **Mokuda, O., Y. Sakamoto, H.-Y. Hu, Rika Kawagoe, N. Shimizu:** Effects of Long Chain Free Fatty Acids on Glucose-Induced Insulin Secretion in the Perfused Rat Pancreas

175 **Møller, N., N. Pørksen, P. Ovesen, K. G. M. M. Alberti:** Evidence of Increased Sensitivity of Fuel Mobilization to Growth Hormone During Short-Term Fasting in Humans

407 **Morishita, D., M. Wakita, S. Hoshino:** Effects of Thyroxine Supplement on Serum Insulin-Like Growth Factor-Binding Activity in Propylthiouracil Induced Hypothyroid Cockerels

160 **Muggeo, M., P. Moghetti, M. Querena, V. Cacciatori, G. Zoppini, M. Zenere, F. Tosi, D. Travia, E. Bonora:** Mononuclear Leukocytes from Obese Patients with Type II EDiabetes have Reduced Activity of Hexokinase, 6-Phosphofructokinase, and Glucose-6-Phosphate Dehydrogenase

403 **Nagasaka, A., S. Yoshida, Rumi Masunaga, S. Kato, Motoko Kotake, A. Nakai, T. Kawabe, T. Tsujimura, Asako Inagaki, K. Iwase:** Enhancement of DNA Polymerase β Activity in the Pituitary Gland by Hormonal Feedback

657 **Nagayama, Y., S. Harakawa, A. Taguchi, A. Takeshita, K. Eguchi, N. Yokoyama, S. Nagataki:** *In Vivo* Effect of Gold Compounds on Thyroxine to Triiodothyronine Conversion by Type I 5′-Deiodinase in Patients with Rheumatoid Arthritis

329 **Naghmi, R., R. Subuhi:** Fibrocalculous Pancreatic Diabetes: Clinical Profile in Libya

603 **Nakamura, K., F. Sato, N. Yasuda:** Direct Suppression by β-Mercaptoethanol of the Prolactin Immunoreactivity Within the Cultured Rat Adenohypophyseal Cells

372 **Niort, G., R. Gambino, M. Cassader, G. Pagano:** Bezafibrate Affects Lipid, Lipo- and Apolipoprotein Pattern in Non-Insulin-Dependent Diabetic Patients.

180 **Nishikawa, M., M. Masaki, H. Masaki, K. Shiomi, Y. Tsutsumi, M. Okuhira, T. Seki, Y. Kubota, K. Inoue, A. Okamura, K. Murata, M. Inada:** Zollinger-Ellison Syndrome and Pheochromocytoma: Report of a Case

518 **Nowak, K. W., P. Mackowiak:** Preliminary Investigations of Bony Fish – Tench (*Tinca Tinca* L.) – Erythrocyte Insulin Receptors

393 **Ohashi, S., H. Kaji, H. Abe, K. Chihara:** "Paradoxical" GH Suppression by Secretagogues in Acromegaly?

646 **Ohzeki, T., Hiroko Motozumi, K. Hanaki, Hiroko Ohtahara, H. Urashima, T. Tsukuda, S. Kobayashi, K. Shiraki, K. Ohno:** Carbohydrate-Deficient Glycoprotein Syndrome in a Girl with Hypogonadism Due to Inactive Follicle Stimulating Hormone

127 **Okuda, Y., M. Mizutani, K. Tsukahara, K. Yamashita:** Eicosapentaenoic Acid Prevents the Inhibition of Myo-Inositol Uptake Induced by High Glucose Concentration in Cultured Human Endotheilial Cells

165 **Okuno, Y., Y. Nishizawa, T. Kawagishi, H. Morii:** In Vivo and In Vitro Effects of Glucocorticoids on Glucose Transport in Human Polymorphonuclear Leukocytes

600 **Oliveira, M. C., P. Spritzer, M. Poy, A. X. Coronel, N. Dahlem, J. T. Moraes, L. M. Barbosa-Coutinho:** Progestin Effects on Prolactin Secretion and on Immunoreactive Prolactin Cells in Estradiol-Treated Ovariectomized Rats

536 **Palermo, M., O. Liva, A. Pala, G. Delitala:** Effect of Captopril, an Inhibitor of the Converting Enzyme on Naloxone Induced Secretion of ACTH and LH in Man

243 **Parry-Billings, M., S. J. Bevan, E. Opara, C.-T. Liu, D. B. Dunger, E. A. Newsholme:** The Effects of Growth Hormone and Insulin-Like Growth Factors I and II on Glutamine Metabolism by Skeletal Muscle of the Rat *In Vitro*

292 **Parry-Billings, M., G. D. Dimitriadis, B. Leighton, D. B. Dunger, E. A. Newsholme:** The Effects of Growth Hormone Administration *In Vivo* on Skeletal Muscle Glutamine Metabolism of the Rat

356 **Parte, Priyanka P., H. S. Juneja:** Assessment of Bioactivity of WHO/NIH Research Standard for Inhibin (Code 86/690) Using Two Separate Pituitary Cell-Culture Systems

170 **Persson, B., H. Pschera, C. Binder, S. Efendic, U. Hanson, S. Hartling, N. O. Lunell:** Decreased Beta-Cell Function in Women with Previous Small for Gestational Age Infants

121 **Pfeiffer, E. F., C. Meyerhoff, Friederike Bischof, F. S. Keck, W. Kerner:** On Line Continuous Monitoring of Subcutaneous Tissue Glucose is Feasible by Combining Portable Glucosensor with Microdialysis

417 **Piedra, C. de la, M. L. Traba, M. J. Municio, R. Torres:** Parathyroid Hormone Related Peptide (1–34) and 1,25-Dihydroxyvitamin D Have no Additive Effects on Bone Tartrate Resistant Acid Phosphatase Activity in Fetal Rat Calvaria Cultures

473 **Raue, F., A. Zink, H. Scherübl:** Regulation of Calcitonin Secretion In Vitro

264 **Redish, Deborah M., Kathleen M. Raley-Susman, R. M. Sapolsky:** Inhibition of Acidification Rate in Cultured Fibroblasts by Glucocorticoids: Application of Silicon Microphysiometry to Endocrinology

294 **Roca, P., C. Pico, M. Gianotti, A. Palou:** "In Vivo" Glutamic Acid Metabolism in Late Pregnant Rats

114 **Rocco, S., F. Mantero, M. Boscaro:** Effects of a Calcium Antagonist on the Pituitary-Adrenal Axis

503 **Rossato, M., G. Guarneri, T. Lavagnini, D. Padovan, C. Foresta:** Simvastatin Influences Testicular Steroidogenesis in Human

192 **Rossmanith, W. G.:** Contemporary Insights into the Control of the Corpus Luteum Function

612 **Ruiz-Grande, C., C. Alarcón, A. Alcántara, C. Castilla, J. M. López Novoa, M. L. Villanueva-Peñacarrillo, I. Valverde:** Renal Catabolism of Truncated Glucagon-Like Peptide 1

375 **Saini, J., J. Krieger, G. Brandenberger, G. Wittersheim, C. Simon, M. Follenius:** Continuous Positive Airway Pressure Treatment. Effects on Growth Hormone, Insulin and Glucose Profiles in Obstructive Sleep Apnea Patients

590 **Sanjurjo, P., R. Matorras, Nuria Ingunza, Margarita Alonso, J. Rodríguez-Alarcón, Lourdes Perteagudo:** Cross-Sectional Study of Percentage Changes in Total Plasmatic Fatty Acids During Pregnancy

156 **Santillo, M., F. Santangelo, A. Belfiore, M. Mastursi, P. Mondola:** Effect of Ascorbic Acid Administration on B and E Apoproteins in Rats Fed a Cholesterol Enriched Diet

1 **Sarkar, P. K., A. K. Ray:** Synaptosomal Action of Thyroid Hormone: Changes in Na+-K+-ATPase Activity in Adult Rat Cerebral Cortex

348 **Schaffer, S. W., B. A. Warner, G. L. Wilson:** Effects of Chronic Glipizide Treatment on the NIDD Heart

204 **Schrezenmeir, J., B. J. Hering, L. Gerö, J. Wiegand-Dressler, M. Solhdju, F. Velten, J. Kirchgessner, C. Laue, J. Beyer, R. Bretzel, K. Federlin:** Long-Term Function of Porcine Islets and Single Cells Embedded in Barium-Alginate Matrix

444 **Seçkin, Ş., N. Alptekin, N. Koçak-Toker, M. Uysal:** Lipid Peroxide and Glutathione Levels in the Liver and its Subcellular Fractions of Alloxan Diabetic Rats

632 **Shi, Y., M. Zou, M. Ahmad, N. R. Farid:** Studies of the Human TSH Receptor Gene in Physiology and Pathology

317 **Shmueli, E., H. Ørskov, K. G. M. M. Alberti, C. O. Record:** Octreotide Treatment Does Not Improve Impaired Glucose Uptake in Cirrhosis

470 **Silver, J., T. Naveh-Many:** Calcitonin Gene Regulation In Vivo

231 **Singh, V. N., M. Quadros, J. N. Singh:** Human Uterine Protein in Relation to Infertility

253 **Sliutz, G., P. Speiser, A. M. Schultz, J. Spona, R. Zeilinger:** Agus Castus Extracts Inhibit Prolactin Secretion of Rat Pituitary Cells

335 **Slootweg, Maria C.:** Growth Hormone and Bone

451 **Smith, Lucille L., J. M. Wells, J. A. Houmard, S. T. Smith, R. G. Israel, T. C. Chenier, S. N. Pennington:** Increases in Plasma Prostaglandin E_2 After Eccentric Exercise: A Preliminary Report

586 **Spandrio, Sara, I. Sleiman, T. Scalvini, A. Salvi, O. Di Stefano, R. Pagliaini, G. P. Balestrieri:** Lipoprotein (a) in Thyroid Dysfunction Before and After Treatment

507 **Strubbe, J. H., A. B. Steffens:** Neural Control of Insulin Secretion

608 **Sugimoto, T., J. Kano, T. Yamaguchi, M. Fukase, K. Chihara:** Role of Calcium/Protein Kinase C in the Regulation of DNA Synthesis by Parathyroid Hormone-Related Peptide in Osteoblastic Osteosarcoma Cells

446 **Šverko, Višnja, M. Hadžija, Mirjana Gavella, Vaskrsenija Lipovac, M. Slijepčević, M. Radačić:** Lipid Bound Sialic Acid Concentration in Mice with Myeloid Leukemia and Alloxan

90 **Swislocki, A. L. M., R. E. Vestal, G. M. Reaven, B. B. Hoffman:** Acute Metabolic Effects of Clonidine and Adenosine in Man

532 **Swislocki, A. L. M., R. Noth, R. Kaplan, Lynn Dowdell, J. Lamothe, Deborah Claire, Callie Smith, Ira Fishman, Cindy Onufer:** Microalbuminuria in a Normotensive Insulin-Treated Diabetic Population

644 **Tajtáková, Mária, P. Langer:** Retrospectively Evaluated Finding of Larger Thyroid Volume in East Slovakian Adolescents in 1987 than in 1992: Effect of Chernobyl?

442 **Taleb, J., B. Krause, G. Göretzlehner:** Twenty-Four Hours Hormone Secretion Profiles of Cortisol and Estradiol in Preterm Labour

453 **Tertipi, A., L. Papagrigoriou, Ph. Kaldrimidis, L. Gogou, M. Dimou, K. Koniaritou-Hagjicannaki:** HLA Family Study in a Group of Greek Women with Non-Classical 21-Hydroxylase Deficiency

88 **Tinnikov, A. A.:** Corticosteroid-Binding Globulin Levels in the Rat Serum Under Conditions of Starvation and Restriction of Motions

289 **Tokuyama, Y., A. Kanatsuka, T. Yamaguchi, H. Ohsawa, H. Makkino, M. Nishimura, S. Yoshida:** Islet Amyloid Polypeptide/Amylin Contents in Pancreata Increase in Genetically Obese and Diabetic Mice

117 **Trainer, P. J., K. C. McHardy, R. D. Harvey, I. W. Reid:** Urinary Free Cortisol in the Assessment of Hydrocortisone Replacement Therapy

548 **Trudeau, F.:** Plasma Glucose and Capsaicin-Sensitive Nerves in the Fed Rat During Exercise

110 **Uemasu, J., M. Fujihara, T. Matsumoto, H. Kawasaki:** Acute Effects of Oral Glucose Loading on the Renin-Angiotensin-Aldosterone System in Patients with Chronic Renal Disease

457 **Ursich, Mileni J. M., Rosa T. Fukui, Dalva M. Rocha, Maria E. R. Silva, B. L. Wajchenberg:** Metabolic Derangements in Excessive Insulin and Sulfonylurea Therapy

653 **Usadel, H., S. R. Bornstein, M. Ehrhart-Bornstein, H. G. Kreysch, W. A. Scherbaum:** Gap Junctions in the Adrenal Cortex

438 **Vierhapper, H., S. Gasic, M. Roden, W. Waldhäusl:** Increase in Skeletal Muscle Blood Flow but Not in Renal Blood Flow During Euglycemic Hyperinsulinemia in Man

623 **Volpé, R., F. Akasu, T. Morita, N. Yoshikawa, E. Resetkova, G. Arreaza, T. Mukuta:** New Animal Models for Human Autoimmune Thyroid Disease: Xenografts of Human Thyroid Tissue in Severe Combined Immunodeficient (SCID) and Nude Mice

323 **Watanabe, Y., I. Inoue, T. Inaba, H. Shimano, T. Gotoda, K. Harada, M. Shimada, S. Kawazu, K. Komeda, Y. Yazaki, N. Yamada:** Effect of Macrophage Colony-Stimulating Factor on the Development of Diabetes Mellitus in BB Rats

628 **Wilfing, Astrid, A. Gessl, Sophia Czernin, O. Förster, Beatrix Grubeck-Loebenstein:** T-T Cell Interactions in Patients with Endocrine Autoimmunity. Definition of Antiergotypic T Lymphocytes

259 **Windberger, Ursula, H. Vierhapper, W. Osterode, P. Nowotny, U. Losert:** Dissociation of Hemodynamic and Renal Effects of i.v. a-hANF (99–126) in Conscious Calfs

593 **Yasuda, D., H. Iguchi, A. Funakoshi, H. Wakasugi, K. Sekiya, T. Misawa, K. Tateishi, S. R. Bloom, H. Nawata:** Comparison of Plasma Pancreastatin and GAWK Concentrations, Presumed Processing Products of Chromogranin A and B, in Plasma of Patients with Pancreatic Islet Cell Tumors

152 **Zamir, N., M. Slover, K. P. Ohman:** Thyroid Hormone Restores Atrial Stretch-Induced Secretion of Atrial Natriuretic Peptide in Hypophysectomized Rats

71 **Ziehm, D., A. Schürmann, M. Weiland, H. G. Joost:** Biphasic Alteration of Glucose Transport in 3T3-L1 Cells During Differentiation to the Adipocyte-Like Phenotype

29 **Žofková, I., C. Lamberg-Allardt, R. L. Kancheva, L. Stárka:** Effect of Hypermagnesemia on the Adenohypophyseal-Gonadal Function, Parathyroid Hormone Secretion and Some Other Hormonal Indicators

569 **Zyl, J. M. van, B. J. van der Walt, A. Kriegler:** Thyroxine-Supported Oxidation in the Myeloperoxidase System

49 Abstracts

283, 333, 401 Announcements

48, 552, 660 Congress Announcements

191 Reviewers

659 In Memoriam